

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0321]

MARCH 2021

Sub. Code: 2504

(OCTOBER 2020 EXAM SESSION)

M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY

FIRST YEAR (From 2019-2020 onwards)

PAPER IV – RADIATION SAFETY AND PROTECTION

Q.P. Code : 282504

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Write in detail about advantages & disadvantages of various radiation detectors & appropriateness of different detectors for different type of radiation measurement.
2. Write in detail about quality control in digital imaging.

II. Write Short Notes on:

(10x6 = 60)

1. What is CT Dose Index (CTDI).
2. Write brief on Average Glandular Dose (AGD) in mammography.
3. What is ALARP.
4. Write short note on Protection in paediatric imaging.
5. Write short note on Film badge.
6. What are the dose reduction strategies used in fluoroscopy.
7. Write brief on Radiation survey meter.
8. What is eLORA.
9. Write short note on Film storage quality control.
10. What is QA phantom.
